

**LaJuana S. Wilcher**  
Secretary

# **AIR QUALITY PERMIT**

**Issued under 401 KAR 52:020**  
**Title V Permits**

**Ernie Fletcher**  
Governor



**Commonwealth of Kentucky**  
**Environmental and Public Protection Cabinet**  
**Department for Environmental Protection**  
**Division for Air Quality**  
**803 Schenkel Lane**  
**Frankfort, Kentucky 40601**  
**(502) 573-3382**

**Permittee Name:** RIVERSIDE GENERATING COMPANY, L.L.C., CATLETTSBURG, KY  
**Mailing Address:** 25038 Highway 23, Catlettsburg, KY 41129

**is authorized to construct and operate an electric power generating plant**

**Source Name:** RIVERSIDE GENERATING COMPANY, L.L.C.  
**Mailing Address:** 25038 Highway 23, Catlettsburg, KY 41129  
**Source Location:** 25038 Highway 23, Catlettsburg, KY 41129

**KYEIS ID #:** 21-127-00040  
**AI Number:** 4392

**SIC Code:** 4911  
**County:** Lawrence

**Permit Number:** V-04-048

**Permit Type:** Title V/Acid Rain/NOx Budget

**Regional Office:** Ashland Regional  
3700 13th St  
Ashland, KY 41105-1507  
Telephone: 606-920-2067

**Completion Date:** September 15, 2004  
**Issuance Date:**  
**Expiration Date:**

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**John S. Lyons, Director**  
**Division for Air Quality**

## Title V-Operating Permit

Riverside Generating Co LLC

Facility Requirements

Activity ID No.: APE20040001

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### AIOO4392 (Source) General Conditions:

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	CO (Carbon Monoxide)	<p>In order to preclude 401 KAR 51:017, source-wide emissions of carbon monoxide shall have the following limit: CO (Carbon Monoxide) &lt; 245 tons/yr, during any consecutive twelve (12) month period.</p> <p>Compliance Demonstration Method</p> <p>The permittee shall assure compliance with the CO emission limitation by summing the monthly emission of CO from all emission units at the facility. The monthly emission of CO from the turbines shall be determined from continuous emission monitors (CEMs) for the combustion turbines. The monthly emission of CO from the natural gas-fired heaters shall be based on the monthly amount (million standard cubic feet) of natural gas burned by each heater and an emission factor of 51.48 pounds per million standard cubic feet of natural gas burned. The maximum operating time for the insignificant activities (emergency electric generators and emergency water pump) shall not exceed 250 hours in any consecutive twelve month period. Records of CO emissions emitted from the source in any consecutive twelve(12) month period shall be reported quarterly to the Kentucky Division for Air Quality's Ashland Regional Office.</p> <p>Preclude applicability. [401 KAR 51:017]</p>
L-2	Nitrogen Oxides	<p>In order to preclude 401 KAR 51:017, source-wide emissions of nitrogen oxides (NOx) shall have the following limit: Nitrogen Oxides &lt; 245 tons/yr, during any consecutive twelve (12) month period.</p> <p>Compliance Demonstration Method</p> <p>The permittee shall assure compliance with the NOx emission limitation by summing the monthly emission of NOx from all emission units at the facility. The monthly emission of NOx from the turbines shall be determined from continuous emission monitors (CEMs) for the combustion turbines. The monthly emission of NOx from the natural gas-fired heaters shall be based on the monthly amount (million standard cubic feet) of natural gas burned by each heater and an emission factor of 122.97 pounds per million standard cubic feet of natural gas burned. The maximum operating time for the insignificant activities (emergency electric generators and emergency water pump) shall not exceed 250 hours in any consecutive twelve month period. Records of NOx emissions emitted from the source in any consecutive twelve(12) month period shall be reported quarterly to the Kentucky Division for Air Quality's Ashland Regional Office.</p> <p>Preclude applicability. [401 KAR 51:017]</p>

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### **Submittal/Action Requirements:**

Condition No.	Condition
S-1	<p><b>SEMIANNUAL REPORTS:</b></p> <p>The permittee shall submit report(s): Due semiannually, by the 30th of January and July to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. This report shall be a summary of any monitoring required by this permit, other than continuous emission or opacity monitors. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b (V)1]. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official [401 KAR 52:020, Section 23]. Data from all continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, Section 3(3). [401 KAR 52:020 Section 26, 401 KAR 59:005 Section 3(3)]</p>
S-2	<p><b>EMISSION EXCEEDANCES:</b></p> <p>The owner or operator shall submit report(s): Due within thirty (30) days of emission related exceedances from permit requirements, including those attributed to upset conditions (other than emission exceedances covered by Requirement D.5); to the Regional Office listed on the front of this permit. Other deviations from permit requirements shall be included in the semiannual reports required by Condition No S-1. [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b V(3) and (4)]. [401 KAR 52:020 Section 26]</p>

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### Submittal/Action Requirements:

Condition No.	Condition
S-3	<p><b>COMPLIANCE CERTIFICATION:</b></p> <p>The permittee shall certify compliance with the terms and conditions contained in this permit and shall submit compliance certification: Due annually, by the 30th of January to the Regional Office listed on the front of this permit. Compliance Certification Form (DEP 7007CC) (or an approved alternative) shall be used in accordance with the following requirements:</p> <ol style="list-style-type: none"><li>Identification of each term or condition;</li><li>The compliance status regarding each term or condition of the permit;</li><li>Whether compliance was continuous or intermittent; and</li><li>The method used for determining the compliance status for the source, currently and over the reporting period.</li><li>For an emissions unit that was still under construction or which has not commenced operation at the end of the year covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.</li><li>The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the Regional Office listed on the front of this permit and the following addresses:</li></ol> <p>U.S. EPA Region IV Air Enforcement Branch Atlanta Federal Center 61 Forsyth St. Atlanta, GA 30303-8960</p> <p>Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601. [401 KAR 52:020 Section 21]</p>

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### Submittal/Action Requirements:

Condition No.	Condition
S-4	<p><b>PERFORMANCE TEST NOTICE AND REPORT:</b></p> <p>Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of any required performance test(s), the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.</p> <p>For any performance test(s) required by this permit, the permittee shall submit performance/emission test results: Due within 45 days of the completion of the fieldwork to the Division [Policy Manual of the Division of Air Quality, Section VII.3]. [401 KAR 50:016 Section 1(1)]</p>
S-5	<p><b>PERMIT EXPIRATION AND REAPPLICATION REQUIREMENTS:</b></p> <p>This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate. The permittee shall submit permit application for renewal: Due at least 180 days prior to permit expiration to the Division. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:020 Section 12]</p> <p>The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets.</p>

. [401 KAR 52:020 Section 8(2)]

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### Narrative Requirements:

Condition No.	Condition
T-1	SECTION A. PERMIT AUTHORIZATION. [401 KAR 52:020]
T-2	<p>A1. Pursuant to a duly submitted application, the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.</p> <p>The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.</p> <p>Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency. [401 KAR 52:020]</p>
T-3	SECTION B. SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS. [401 KAR 52:020]
T-4	B1. Compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b]. [401 KAR 52:020 Section 26]
T-5	B2. Nitrogen oxides, sulfur dioxide, and carbon monoxide emissions, as measured by methods referenced in 401 KAR 50:015 Section 1, shall not exceed the respective limitations specified herein. [401 KAR Chapter 52]
T-6	SECTION C. SOURCE CONTROL EQUIPMENT REQUIREMENTS. [401 KAR 50:055]
T-7	C1. At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [401 KAR 50:055 Section 2(5)]
T-8	SECTION D. MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS. [401 KAR 52:020]

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### Narrative Requirements:

Condition No.	Condition
T-9	<p>D.1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:</p> <ul style="list-style-type: none"><li>a. Date, place as defined in this permit, and time of sampling or measurements.</li><li>b. Analyses performance dates;</li><li>c. Company or entity that performed analyses;</li><li>d. Analytical techniques or methods used;</li><li>e. Analyses results; and</li><li>f. Operating conditions during time of sampling or measurement [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b (IV)(1)]. [401 KAR 52:020 Section 26]</li></ul>
T-10	<p>D.2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Cabinet Provisions and Procedures for Issuing Title V Permits, Sections 1b (IV)(2) and 1a (8)]. [401 KAR 52:020 Section 26]</p>
T-11	<p>D.3. The permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:</p> <ul style="list-style-type: none"><li>a. To access and copy any records required by the permit;</li><li>b. To inspect any facility, equipment (including monitoring and air pollution control equipment), practice, or operation; and</li><li>c. To sample or monitor substances or parameters to assure compliance with the permit or any applicable requirements.</li></ul> <p>Reasonable times are defined as during all hours of operation, during normal office hours, or during an emergency. [401 KAR 52:020 Section 3(1)(h)]</p>
T-12	<p>D.4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Pursuant to 401 KAR 50:060, Section 2(2), refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties. [KRS 77.165, 401 KAR 50:060 Section 2(2)]</p>
T-13	<p>D.5. The owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:</p> <ul style="list-style-type: none"><li>i) When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.</li><li>ii) When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request. [401 KAR 50:055 Section 1]</li></ul>

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### Narrative Requirements:

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T-14	D.6. The permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KEIS emission report is mailed to the permittee. If a KEIS emission report is not mailed to the permittee, comply with all other emission reporting requirements in this permit. [401 KAR 52:020 Section 3(1)(d)]
T-15	SECTION E. GENERAL PROVISIONS. [401 KAR 52:020]
T-16	E(a) General Compliance Requirements. [401 KAR 52:020]
T-17	E(a)1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (3)]. [401 KAR 52:020 Section 26]
T-18	E(a)2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (6)]. [401 KAR 52:020 Section 26]
T-19	<p>E(a)3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:</p> <p>a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;</p> <p>b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;</p> <p>c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;</p> <p>d. If any additional applicable requirements of the Acid Rain Program become applicable to the source. [Acid Rain sources only]</p> <p>Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency. [401 KAR 52:020 Section 19]</p>



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### Narrative Requirements:

Condition No.	Condition
T-20	E(a)4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (7) and (8)]. [401 KAR 52:020 Section 26]
T-21	E(a)5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority. [401 KAR 52:020 Section 7(1)]
T-22	E(a)6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (14)]. [401 KAR 52:020 Section 26]
T-23	E(a)7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (4)]. [401 KAR 52:020 Section 26]
T-24	E(a)8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (15)(b)]. [401 KAR 52:020 Section 26]
T-25	E(a)9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3 (6) [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (10)]. [401 KAR 52:020 Section 26]
T-26	E(a)10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:020 Section 11(3)(b)]
T-27	E(a)11. This permit does not convey property rights or exclusive privileges. [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (9)]. [401 KAR 52:020 Section 26]
T-28	E(a)12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency. [401 KAR Chapter 52]
T-29	E(a)13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 52:020 Section 11(3)(d)]
T-30	E(a)14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 52:020 Section 11(3)(a)]

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### Narrative Requirements:

Condition No.	Condition
T-31	E(a)15. Permit shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with: (a) Applicable requirements that are included and specifically identified in the permit and (b) Non-applicable requirements expressly identified in this permit. [401 KAR 52:020 Section 11]
T-32	E(a)16. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source. [401 KAR Chapter 51]
T-33	E(b) Permit Revisions. [401 KAR 52:020]
T-34	E(b)1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2). [401 KAR 52:020 Section 14(2)]
T-35	E(b)2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer. [401 KAR 52:020]
T-36	E(d) Acid Rain Program Requirements. [401 KAR Chapter 52]
T-37	E(d)1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable. [401 KAR Chapter 52]
T-38	E(e) Emergency Provisions. [401 KAR 52:020]

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### Narrative Requirements:

Condition No.	Condition
T-39	<p>E(e)1. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:</p> <ul style="list-style-type: none"><li>a. An emergency occurred and the permittee can identify the cause of the emergency;</li><li>b. The permitted facility was at the time being properly operated;</li><li>c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and</li><li>d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.</li><li>e. This requirement does not relieve the source from other local, state or federal notification requirements. [401 KAR 52:020 Section 24(1)]</li></ul>
T-40	<p>E(e)2. Emergency conditions listed in General Condition E(f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement. [401 KAR 52:020 Section 24(3)]</p>
T-41	<p>E(e)3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:020 Section 24(2)]</p>
T-42	<p>E(f) Risk Management Provisions. [401 KAR Chapter 68]</p>
T-43	<p>E(f)1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to</p> <p>RMP Reporting Center P.O. Box 3346 Merrifield, VA, 22116-3346. [401 KAR Chapter 68]</p>
T-44	<p>E(f)2. If requested, submit additional relevant information to the Division or the U.S. EPA. [401 KAR Chapter 68]</p>
T-45	<p>E(g) Ozone depleting substances. [40 CFR 82]</p>

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### Narrative Requirements:

Condition No.	Condition
T-46	<p>E(g)1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:</p> <ul style="list-style-type: none"><li>a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.</li><li>b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.</li><li>c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.</li><li>d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166</li><li>e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.</li><li>f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [40 CFR 82]</li></ul>
T-47	<p>E(g)2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. [40 CFR 82]</p>
T-48	<p>SECTION F. ACID RAIN PERMIT. [401 KAR 52:060]</p>
T-49	<p>ACID RAIN PERMIT CONTENTS</p> <ul style="list-style-type: none"><li>1) Statement of Basis</li><li>2) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.</li><li>3) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the Phase II Application and the Phase II NOx Compliance Plan.</li><li>4) Summary of Actions</li><li>5) SO2 allowances allocated under this permit and NOx requirements for each affected unit (see emission unit specific requirements). [401 KAR 52:060]</li></ul>

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### Narrative Requirements:

Condition No.	Condition
T-50	<p>1) Statement of Basis:</p> <p>Statutory and Regulatory Authorities: In accordance with KRS 224.10-100 and Titles IV and V of the Clean Air Act, the Kentucky Natural Resources and Environmental Protection Cabinet, Division for Air Quality issues this permit pursuant to Regulations 401 KAR 52:020, Permits, 401 KAR 52:060, Acid Rain Permit, and Federal Regulation 40 CFR Part 76. [401 KAR 52:060]</p>
T-51	<p>2) Comments, Notes, and Justifications:</p> <p>Affected units are Emission Unit 01 (GTG-101), Emission Unit 02 (GTG-201), Emission Unit 03 (GTG-301), Emission Unit 04 (GTG-401), and Emission Unit 05 (GTG-501).</p> <p>No units currently have SO<sub>2</sub> allowances allocated by U.S. EPA.</p> <p>No units have applicable NO<sub>x</sub> limits set by 40 CFR part 76. [401 KAR 52:060]</p>
T-52	<p>3) Permit Application:</p> <p>The Phase II Permit Application is part of this permit and the source must comply with the standard requirements and special provisions set forth in the Phase II Application. [401 KAR 52:060]</p>

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### Narrative Requirements:

Condition No.	Condition
T-53	<p>4) Summary of Actions:</p> <p>Previous Actions:</p> <ol style="list-style-type: none"><li>1. Draft Phase II Acid Rain Permit (# A-00-001) with the initial Title V permit (# V-99-051), was issued for public comment on January 5, 2000.</li><li>2. Proposed/Final Phase II Acid Rain Permit (# A-00-001) with the initial Title V permit (# V-99-051), was issued on February 24, 2000.</li><li>3. Draft revised Phase II Acid Rain Permit (# A-00-001 (Revision I)) with the revised Title V permit (# V-99-051 (Revision I)), was issued for public comment on November 9, 2000.</li><li>4. Proposed/Final Phase II Acid Rain Permit (# A-00-001 (Revision 1)) with the with revised Title V permit (# V-99-051 (Revision 1)), was issued on February 2, 2001.</li><li>5. Minor modification were made to the Title V permit on June 6, 2001 (became V-99-051 (Revision II)) and on March 8, 2002 (became V-99-051 (Revision III)). No changes were made to the Phase II Acid Rain Permit.</li><li>6.0 Phase II Permit (# A-00-001) with revisions is hereby null and void.</li></ol> <p>Present Action:</p> <ol style="list-style-type: none"><li>1. Draft Title V with Section F Acid Rain Permit has been advertised for public comment. [401 KAR 52:060]</li></ol>

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### Narrative Requirements:

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Condition No.	Condition
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T-54

NOx BUDGET PERMIT

#### Statement of Basis

Statutory and Regulatory Authorities: In accordance with KRS 224.10-100, the Kentucky Natural Resources and Environmental Protection Cabinet issues this permit pursuant to 401 KAR 52:020 Title V permits, 401 KAR 51:160, NOx requirements for large utility and industrial boilers, and 40 CFR 97, Subpart C.

NOx Budget Permit Application, Form DEP 7007EE

The NOx Budget Permit application for these electrical generating units was submitted to the Division and received on November 25, 2002. Requirements contained in that application are hereby incorporated into and made part of this NOx Budget Permit. Pursuant to 401 KAR 52:020, Section 3, the source shall operate in compliance with those requirements.

Comments, notes, justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.

Affected units are Emission Unit 01 (GTG-101), Emission Unit 02 (GTG-201), Emission Unit 03 (GTG-301), Emission Unit 04 (GTG-401), and Emission Unit 05 (GTG-501).

No units have applicable NOx limits set by 40 CFR Part 97, Subpart C.

#### Summary of Actions

The NOx Budget Permit is being issued as part of the Title V permit renewal for this source. Public, affected state, and U.S. EPA review will follow procedures specified in 401 KAR 52:100. [401 KAR 51:160]

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**EQPT7 (Insignificant) 250 kW diesel-fired emergency electric generator w/250-gallon diesel fuel storage tank  
400 kW diesel-fired emergency electric generator w/800-gallon diesel fuel storage tank**

### Narrative Requirements:

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Condition No.	Condition
T-1	The activities within this group have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020 Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary. [401 KAR 52:020 Section 6]



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### GAFT2 (Em. Units 01 - 05) Natural Gas-Fired Turbines for Electric Generation:

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	CO (Carbon Monoxide)	<p>In order to preclude 401 KAR 51:017, the maximum concentration of carbon monoxide shall have the following concentration limit on emissions: CO (Carbon Monoxide) <math>\leq</math> 50 ppm in any three-hour average, except during the start-up and shut-down period. The start-up and shut-down emission calculation should be based on the vendor recommended emission rate. The CO emissions during the start-up and shut-down from the units shall be included in the total emission cap of 245 tons per year, as specified in the AIOO4392 (Source) General Conditions, Condition No. L-1.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the CO emission limit, refer to Monitoring Condition No. T-5 for Continuous Emissions Monitors (CEMs) and AIOO4392 (Source) General Conditions, Condition No. S-2.</p>
L-2	Sulfur Content	<p>In order to preclude 401 KAR 51:017, the fuel sulfur content due to the firing of pipeline quality natural gas shall have the following limitation: Sulfur Content <math>\leq</math> 1.0 grains/100 dscf of natural gas.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the fuel sulfur content limit, refer to Monitoring Condition No. T-8, T-9, and Reporting Requirements Condition No. T-10.</p> <p>Preclude applicability. [401 KAR 51:017]</p>

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### Limitation Requirements:

Condition No.	Parameter	Condition
L-3	Nitrogen Oxides	<p>In order to preclude 401 KAR 51:017, the maximum concentration of nitrogen oxides shall have the following concentration limit on emissions: Nitrogen Oxides <math>\leq 20</math> ppm<sub>dv</sub> @ 15% O<sub>2</sub> in any three-hour average, except during the start-up and shut-down period. The permittee shall not operate combustion turbines below 60 percent load except during the start-up and shut-down period. The start-up and shut-down emission calculation should be based on the vendor recommended emission rate. The nitrogen oxides (NO<sub>x</sub>) emissions during the start-up and shut-down from the units shall be included in the total emission cap of 245 tons per year, as specified in the AIOO4392 (Source) General Conditions, Condition No. L-2.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the NO<sub>x</sub> emission limit, refer to Monitoring Condition No. T-5 through T-9, and Reporting Requirements, Condition No. T-10.</p> <p>Preclude applicability. [401 KAR 51:017]</p>
L-4	Nitrogen Oxides	<p>The source shall have emissions of Nitrogen Oxides <math>\leq 0.01107</math> % by volume at 15% oxygen and on a dry basis.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the NO<sub>x</sub> emission limit, refer to Monitoring Condition No. T-5 through T-9, and Reporting Requirements, Condition No. T-10. This limit will be met by meeting the 20 ppm<sub>dv</sub> at 15 % O<sub>2</sub>, NO<sub>x</sub> limit to preclude 401 KAR 51:017.</p> <p>Limitation. [40 CFR 60.332(a)(1)] This requirement is applicable during the following months: All Year. Statistical basis: One-hour average.</p>

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### Limitation Requirements:

Condition No.	Parameter	Condition
L-5	Operating Time	<p>In order to preclude 401 KAR 51:017, the emission units shall have the following limit: the Maximum Total Annual (12-month rolling average) Operating Time <math>\leq</math> 4580 hr per combustion turbine. Natural gas shall be the sole fuel fired in the turbines.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the hourly rate limit on the combustion turbines and the type of fuel fired in the turbine, refer to Monitoring Condition No. T-4 and Recordkeeping Condition No. T-3.</p> <p>Preclude applicability. [401 KAR 51:017]</p>
L-6	SO <sub>2</sub> (Sulfur Dioxide)	<p>The source shall have emissions of SO<sub>2</sub> (Sulfur Dioxide) <math>\leq</math> 0.015 % by volume at 15 percent oxygen on a dry basis OR not burn any fuel which contains sulfur in excess of 0.8 percent by weight (8000 ppmw).</p> <p>Compliance Demonstration Method</p> <p>For compliance with the SO<sub>2</sub> emission limit, refer to Monitoring Condition No. T-8 through T-9, and Reporting Requirements, Condition No. T-10.</p> <p>Limitation Requirement. [40 CFR 60.333]</p>

### Narrative Requirements:

#### Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: Incorporating by reference 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, for emission units with a heat input equal to or greater than 10 mmBtu/hour for which construction commenced after October 3, 1977. [401 KAR 60:005 Section 3(nn)]

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### Narrative Requirements:

#### Applicable Regulations:

Condition No.	Condition
T-2	<p>Applicable Regulations: 401 KAR 52:060 - Acid Rain Permits. This regulation applies to affected sources and affected units under the Acid Rain Program, pursuant to 42 USC 7651 to 7651o. Applicability determination is set forth under 40 CFR 72.6.</p> <p>40 CFR Part 75 - Continuous Emission Monitoring. The provisions of this part apply to each affected unit subject to Acid Rain emission limitations or reduction requirements for sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).</p>

#### Recordkeeping:

Condition No.	Condition
T-3	<p>Recordkeeping: The permittee shall record the following items on a monthly basis from each combustion turbine:</p> <ul style="list-style-type: none"><li>1) the hours of operation;</li><li>2) the usage rate and type of fuel; and</li><li>3) the power output.</li></ul>

#### Monitoring:

Condition No.	Condition
T-4	<p>Monitoring: The permittee shall monitor the following items on a monthly basis from each combustion turbine:</p> <ul style="list-style-type: none"><li>1) the hours of operation;</li><li>2) the usage rate and type of fuel; and</li><li>3) the power output.</li></ul>

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### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-5	<p>Monitoring: Continuous Emissions Monitors (CEMs)</p> <p>The permittee shall install, calibrate, maintain, and operate a CEM for the following parameters:</p> <ol style="list-style-type: none"><li>1) Nitrogen oxides (NO<sub>x</sub>) emissions;</li><li>2) Oxygen levels; and</li><li>3) Carbon monoxide (CO).</li></ol> <p>Excluding startup and shut down periods, if any 3-hour rolling average exceeds the NO<sub>x</sub> or CO emission limitation, the permittee shall, as appropriate, initiate an investigation of the cause of the exceedance and complete necessary control device/process/CEM repairs or take corrective action as soon as practicable. The owner or operator shall comply with all of the monitoring requirements of 40 CFR 75, Continuous Emission Monitoring.</p>
T-6	<p>Monitoring: Pursuant to 40 CFR 60.334(c), the owner or operator may, for purposes of determining excess emissions, use a CEMs that meets the requirements of 40 CFR 60.334(b), which includes the following requirements:</p> <ol style="list-style-type: none"><li>1) Each CEMs must be installed and certified according to PS 2 and 3 (for diluent) of 40 CFR part 60, appendix B, except the 7-day calibration drift is based on unit operating days, not calendar days. Appendix F, Procedure 1 is not required. The relative accuracy test audit (RATA) of the NO<sub>x</sub> and diluent monitors may be performed individually or on a combined basis, i.e., the relative accuracy tests of the CEMs may be performed either:<ol style="list-style-type: none"><li>(i) On a ppm basis (for NO<sub>x</sub>) and a percent O<sub>2</sub> basis for oxygen; or</li><li>(ii) On a ppm at 15 percent O<sub>2</sub> basis; or</li><li>(iii) On a ppm basis (for NO<sub>x</sub>) and a percent CO<sub>2</sub> basis (for a CO<sub>2</sub> monitor that uses the procedures in Method 20 to correct the NO<sub>x</sub> data to 15 percent O<sub>2</sub>).</li></ol></li><li>2) As specified in 40 CFR 60.13(e)(2), during each full unit operating hour, each monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMs, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [40 CFR 60]</li></ol>

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### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-7	<p>Monitoring: Pursuant to 40 CFR 60.334(c), the owner or operator may, for purposes of determining excess emissions, use a CEMs that meets the requirements of 40 CFR 60.334(b), which includes the following requirements (Continued):</p> <p>(3) For purposes of identifying excess emissions, CEMs data must be reduced to hourly averages as specified in 40 CFR 60.13(h).</p> <p>(i) For each unit operating hour in which a valid hourly average, as described in 40 CFR 60.334(b)(2), is obtained for both NO<sub>x</sub> and diluent, the data acquisition and handling system must calculate and record the hourly NO<sub>x</sub> emissions in the units of the applicable NO<sub>x</sub> emission standard under 40 CFR 60.332(a), i.e., percent NO<sub>x</sub> by volume, dry basis, corrected to 15 percent O<sub>2</sub> and International Organization for Standardization (ISO) standard conditions (if required as given in 40 CFR 60.335(b)(1)). For any hour in which the hourly average O<sub>2</sub> concentration exceeds 19.0 percent O<sub>2</sub>, a diluent cap value of 19.0 percent O<sub>2</sub> may be used in the emission calculations.</p> <p>(ii) A worst case ISO correction factor may be calculated and applied using historical ambient data. For the purpose of this calculation, substitute the maximum humidity of ambient air (H<sub>o</sub>), minimum ambient temperature (T<sub>a</sub>), and minimum combustor inlet absolute pressure (P<sub>o</sub>) into the ISO correction equation.</p> <p>(iii) If the owner or operator has installed a NO<sub>x</sub> CEMs to meet the requirements of 40 CFR part 75, and is continuing to meet the ongoing requirements of 40 CFR part 75, the CEMs may be used to meet the requirements of this section, except that the missing data substitution methodology provided for at 40 CFR part 75, subpart D, is not required for purposes of identifying excess emissions. Instead, periods of missing CEMs data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in 40 CFR 60.7(c). [40 CFR 60]</p>
T-8	<p>Monitoring: Pursuant to 40 CFR 60.334(h), the owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60 Subpart GG:</p> <p>1) Shall monitor the total sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.334(h)(3). The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR 60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084–82, 94, D5504–01, D6228–98, or Gas Processors Association Standard 2377–86 (all of which are incorporated by reference-see 40 CFR 60.17), which measure the major sulfur compounds may be used; and</p> <p>2) Shall monitor the nitrogen content of the fuel combusted in the turbine, if the owner or operator claims an allowance for fuel bound nitrogen (i.e., if an F-value greater than zero is being or will be used by the owner or operator to calculate STD in 40 CFR 60.332). The nitrogen content of the fuel shall be determined using methods described in 40 CFR 60.335(b)(9) or an approved alternative.</p>

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### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-9	<p>Monitoring: Pursuant to 40 CFR 60.334(i) (2), the frequency of determining the nitrogen content of the fuel shall be as follows:</p> <p>Gaseous fuel. Any applicable nitrogen content value of the gaseous fuel shall be determined and recorded once per unit operating day.</p> <p>In order to preclude the applicability of 401 KAR 51:017, the frequency for monitoring for sulfur content of the fuel shall be once per month, if the unit is in operation during that month. [401 KAR 52:020]</p>

#### Reporting Requirements:

Condition No.	Condition
T-10	<p>Reporting Requirements: Pursuant to 40 CFR 60.334(j), for each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under 40 CFR 60 Subpart GG, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with 40 CFR 60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows:</p> <p>(1) Nitrogen oxides - refer to 40 CFR 60.334(j)(1).</p> <p>(2) Sulfur dioxide - refer to 40 CFR 60.334(j)(2).</p>

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### Narrative Requirements:

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Condition

No.

Condition

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T-11

ACID RAIN PERMIT

SO2 Allowance Allocations and NOx requirements for the affected unit:

SO2 Allowances (Table 2,3, or 4 of 40 CFR Part 73)

2004	0*
2005	0*
2006	0*
2007	0*
2008	0*
2009	0*

\*For newly constructed units there are no SO2 allowances per USEPA Acid Rain Program. The number of allowances allocated to Phase II affected units by the U.S. EPA may change under 40 CFR part 73. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U. S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocations identified in this permit (See 40 CFR 72.84).

NOx Requirements - The units do not have applicable NOx limit set by 40 CFR, part 76.

Limitation. [401 KAR 52:060]



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### GACT3 (Em. Units 06 - 07) Natural Gas-Fired Indirect Heater:

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	CO (Carbon Monoxide)	<p>In order to preclude 401 KAR 51:017, the combined annual emissions of carbon monoxide (CO) from the heaters shall have the following limit: CO (Carbon Monoxide) <math>\leq</math> 0.59 tons/yr.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the annual CO limit, refer to AIOO4392 (Source) General Conditions, Condition No. L-1.</p>
L-2	Nitrogen Oxides	<p>In order to preclude 401 KAR 51:017, the combined annual emissions of nitrogen oxides from the heaters shall have the following limit: Nitrogen Oxides <math>\leq</math> 1.42 tons/yr.</p> <p>Compliance Demonstration Method</p> <p>For compliance with the annual NOx limit, refer to AIOO4392 (Source) General Conditions, Condition No. L-2.</p>
L-3	SO2 (Sulfur Dioxide)	<p>Each unit shall have emissions of SO2 (Sulfur Dioxide) <math>\leq</math> 0.33 lb/mm Btu actual heat input.</p> <p>Compliance Demonstration Method</p> <p>Compliance with the allowable SO2 limitation is demonstrated while burning natural gas.</p> <p>Limitation. [401 KAR 59:015 Section 5(1)] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>
L-4	PT (Particulate Matter)	<p>Each unit shall have emissions of PT (Particulate Matter) <math>\leq</math> 0.15 lb/mm Btu actual heat input.</p> <p>Compliance Demonstration Method</p> <p>Compliance with the allowable PT limitation is demonstrated while burning natural gas.</p> <p>Limitation. [401 KAR 59:015 Section 4(1)] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>

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### Limitation Requirements:

Condition No.	Parameter	Condition
L-5	Visible Emissions	<p>Each unit shall have Visible Emissions <math>\leq 20\%</math> opacity, except a maximum of 40% opacity shall be permissible for not more than 6 consecutive minutes in any 60 consecutive minutes during cleaning of the firebox, blowing of soot and building of a new fire.</p> <p>Compliance Demonstration Method</p> <p>Compliance with the allowable opacity limitation is demonstrated while burning natural gas.</p> <p>Limitation. [401 KAR 59:015 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Six-minute average.</p>

### Narrative Requirements:

#### Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: New Indirect Heat Exchangers applies to new affected facilities less than 250 mmBtu/hr commenced on or after April 9, 1972. [401 KAR 59:015]
T-2	Applicable Regulations: Incorporating by reference 40 CFR 60 Subpart Dc, Standards of performance for small industrial-commercial-institutional steam generating units applies to each affected facility that commenced construction after June 9, 1989. [401 KAR 60:005 Section 3(e)]

#### Recordkeeping:

Condition No.	Condition
T-3	Recordkeeping: The permittee shall record the monthly fuel usage, the average monthly fuel heat content, and the monthly hours of operation. [401 KAR 52:020]

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### Narrative Requirements:

#### Monitoring:

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Condition

No.

Condition

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T-4	Monitoring: The permittee shall monitor the monthly fuel usage, the average monthly fuel heat content, and the monthly hours of operation.
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Subject Item Inventory

Activity ID No.: APE20040001

### Subject Item Inventory:

ID	Designation	Description
AIOO4392	Source	General Conditions
COMB1001	E.U. 01 (GTG-101)	Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners
COMB2001	E.U. 02 (GTG-201)	Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners
COMB3001	E.U. 03 (GTG-301)	Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners
COMB4001	E.U. 04 (GTG-401)	Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2002 Fuel - Natural Gas Emission Control Methods - Water Injection, Selective Catalytic Reduction (SCF) and low-NOx burners
COMB5001	E.U. 05 (GTG-501)	Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2002 Fuel - Natural Gas Emission Control Methods - Water Injection, Selective Catalytic Reduction (SCF) and low-NOx burners

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ID	Designation	Description
COMB6001	E.U. 06 (HTR-101)	Natural Gas-Fired Indirect Heater w/Forced Draft Burner Capacity - 14.6 mmBtu/hr (0.0143 million cubic feet per hour of 1020 Btu/scf natural gas) Date Constructed - May 2001 Fuel - Natural Gas
COMB7001	E.U. 07 (HTR-201)	Natural Gas-Fired Indirect Heater w/Forced Draft Burner Capacity - 10.71 mmBtu/hr (0.0105 million cubic feet per hour of 1020 Btu/scf natural gas) Date Constructed - May 2001 Fuel - Natural Gas
EQPT7	Insignificant	250 kW diesel-fired emergency electric generator w/250-gallon diesel fuel storage tank 400 kW diesel-fired emergency electric generator w/800-gallon diesel fuel storage tank 310 hp diesel-fired emergency fire water pump w/300-gallon diesel fuel storage tank 4.5 hp air compressor Fugitive emissions from natural gas fuel handling system 150-gallon above ground diesel fuel storage tank One 2,560-gallon and two 1,600-gallon oil/water separator tanks Two 748-gallon condensate tanks

### Subject Item Groups:

ID	Description	Components
GACT2	Natural Gas-Fired Turbines for Electric Generation	COMB2001 Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners
		COMB1001 Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners

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ID	Description	Components
GACT2	Natural Gas-Fired Turbines for Electric Generation	COMB4001 Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2002 Fuel - Natural Gas Emission Control Methods - Water Injection, Selective Catalytic Reduction (SCF) and low-NOx burners
		COMB5001 Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2002 Fuel - Natural Gas Emission Control Methods - Water Injection, Selective Catalytic Reduction (SCF) and low-NOx burners
		COMB3001 Natural Gas-Fired Turbine for Electric Generation Capacity - 2076 mmBtu/hr (2.04 million cubic feet per hour of 1020 Btu/scf natural gas) Power output - 208 MW Date Constructed - May 2001 Fuel - Natural Gas Emission Control Methods - Water Injection and low-NOx burners
GACT3	Natural Gas-Fired Indirect Heater	COMB7001 Natural Gas-Fired Indirect Heater w/Forced Draft Burner Capacity - 10.71 mmBtu/hr (0.0105 million cubic feet per hour of 1020 Btu/scf natural gas) Date Constructed - May 2001 Fuel - Natural Gas
		COMB6001 Natural Gas-Fired Indirect Heater w/Forced Draft Burner Capacity - 14.6 mmBtu/hr (0.0143 million cubic feet per hour of 1020 Btu/scf natural gas) Date Constructed - May 2001 Fuel - Natural Gas

### **KEY**

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

## **Title V-Operating Permit**

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Subject Item Inventory

Activity ID No.: APE20040001

### **KEY**

TRMT = Treatment